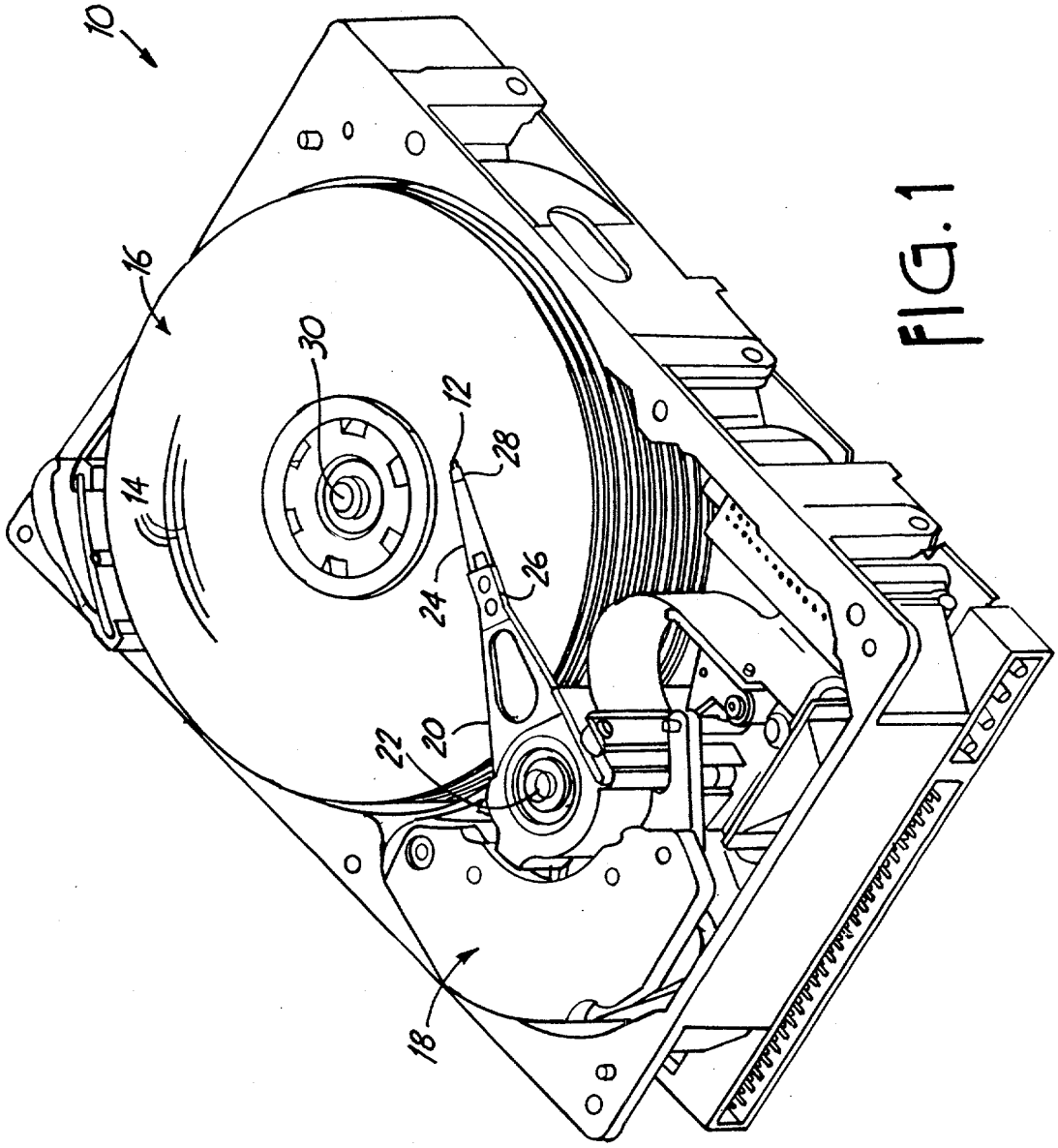


FIG. 1

20050502 - 0405455 - 1005940

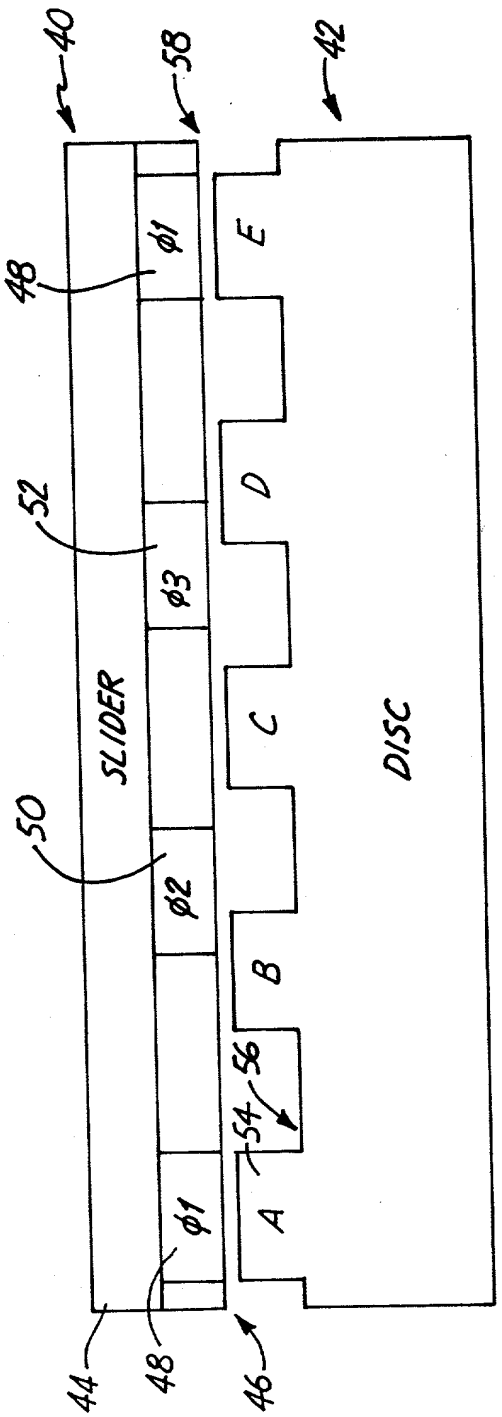


FIG. 2

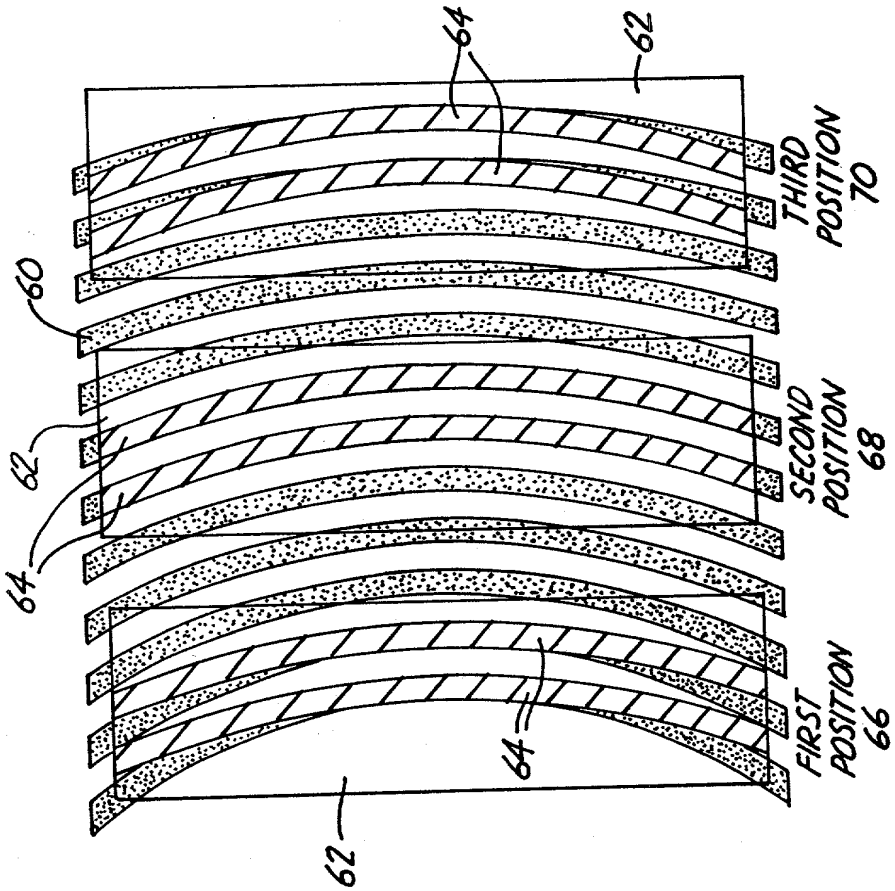


FIG. 3

2050450 - 0450502

20504.0 95455001

$$d = R - \sqrt{R^2 - y^2}$$

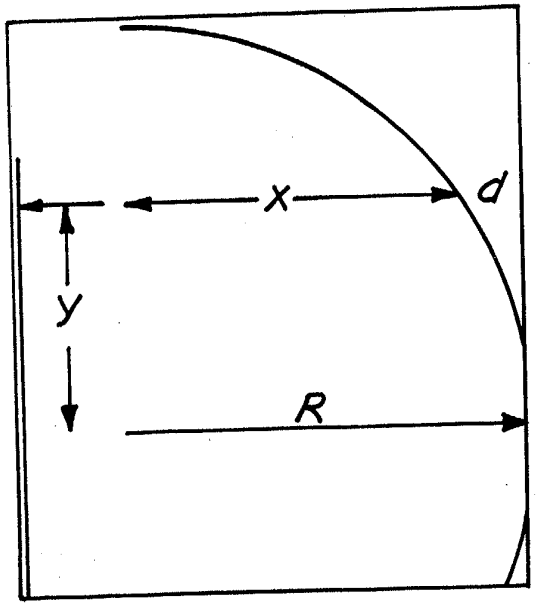


FIG. 4

20501h0" 95h55001

| y (mm) | Curvature depth in microinches<br>Change in curvature with respect to 28mm radius<br>R (mm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 16 | 20 | 24 | 28 | 32 | 36 | 40 | 44 |
| 0.000 | 0.000<br>0.000 | 0.000<br>0.000 | 0.000<br>0.000 | 0.000<br>0.000 | 0.000<br>0.000 | 0.000<br>0.000 | 0.000<br>0.000 | 0.000<br>0.000 |
| 0.010 | 0.123<br>0.053 | 0.098<br>0.028 | 0.082<br>0.012 | 0.070<br>0.000 | 0.062<br>-0.009 | 0.055<br>-0.016 | 0.049<br>-0.021 | 0.045<br>-0.026 |
| 0.020 | 0.492<br>0.211 | 0.394<br>0.112 | 0.328<br>0.047 | 0.281<br>0.000 | 0.246<br>-0.035 | 0.219<br>-0.062 | 0.197<br>-0.084 | 0.179<br>-0.102 |
| 0.030 | 1.107<br>0.475 | 0.886<br>0.253 | 0.738<br>0.105 | 0.633<br>0.000 | 0.554<br>-0.079 | 0.492<br>-0.141 | 0.443<br>-0.190 | 0.403<br>-0.230 |
| 0.040 | 1.969<br>0.844 | 1.575<br>0.450 | 1.312<br>0.187 | 1.125<br>0.000 | 0.984<br>-0.141 | 0.875<br>-0.250 | 0.787<br>-0.337 | 0.716<br>-0.409 |
| 0.050 | 3.076<br>1.318 | 2.461<br>0.703 | 2.051<br>0.293 | 1.758<br>0.000 | 1.538<br>-0.220 | 1.367<br>-0.391 | 1.230<br>-0.527 | 1.118<br>-0.639 |
| 0.060 | 4.429<br>1.898 | 3.543<br>1.012 | 2.953<br>0.422 | 2.531<br>0.000 | 2.215<br>-0.316 | 1.969<br>-0.562 | 1.772<br>-0.759 | 1.611<br>-0.920 |
| 0.070 | 6.029<br>2.584 | 4.823<br>1.378 | 4.019<br>0.574 | 3.445<br>0.000 | 3.014<br>-0.431 | 2.679<br>-0.766 | 2.411<br>-1.033 | 2.192<br>-1.253 |
| 0.080 | 7.874<br>3.375 | 6.299<br>1.800 | 5.249<br>0.750 | 4.499<br>0.000 | 3.937<br>-0.562 | 3.500<br>-1.000 | 3.150<br>-1.350 | 2.863<br>-1.636 |
| 0.090 | 9.966<br>4.271 | 7.972<br>2.278 | 6.644<br>0.949 | 5.695<br>0.000 | 4.983<br>-0.712 | 4.429<br>-1.265 | 3.986<br>-1.708 | 3.624<br>-2.071 |
| 0.100 | 12.303<br>5.273 | 9.843<br>2.812 | 8.202<br>1.172 | 7.030<br>0.000 | 6.152<br>-0.879 | 5.468<br>-1.562 | 4.921<br>-2.109 | 4.474<br>-2.557 |

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FIG. 5

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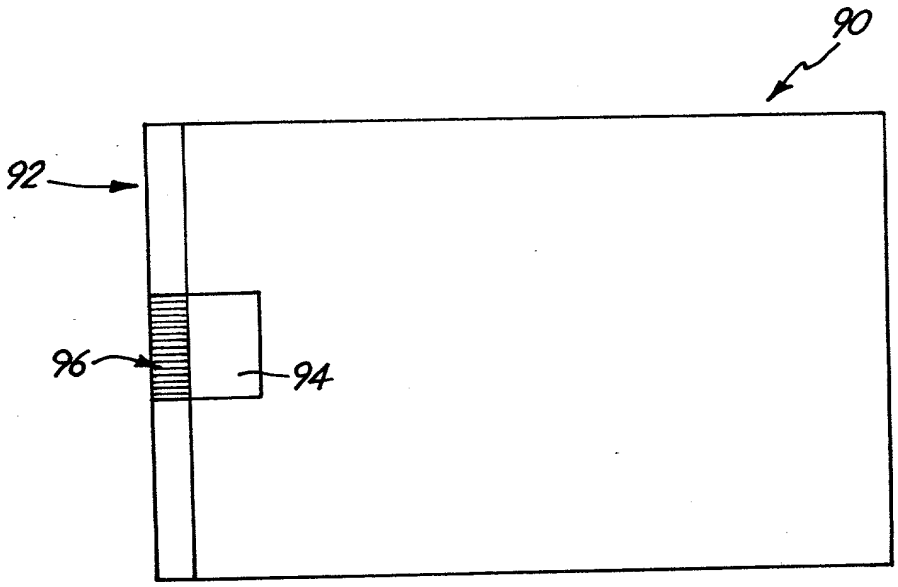


FIG. 6